Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-17 (Cancelled).

18. (Currently Amended) A system for receiving data comprising:

a programmable pattern matching engine receiving a pattern and a data stream and generating an index entry if the pattern is present in the data stream, **wherein the programmable pattern matching engine performs one or more of address filtering, logical link control (LLC) filtering, protocol identifier (PID) filtering, and security ID (SID) filtering in a Multimedia Cable Network System (MCNS)**;

a programmable media access controller reading the index entry and determining whether to continue receipt of the data stream; [[and]]

a CRC engine performing CRC processing of a received data frame if the programmable media access controller determines to continue receipt of the data stream; **and**

a cable modem DMA controller coupled to the programmable media access controller, the programmable pattern matching engine, and the CRC engine, the cable modem DMA controller facilitating movement of data between the programmable media access controller, the programmable pattern matching engine, and the CRC engine.

19. (Previously presented) The system of claim 18 further wherein the pattern comprises one or more of a MAC address, an IP address, and a protocol identifier (PID) of an MPEG frame.

Claims 20-22 (Cancelled).

23. (Previously presented) The system of claim 18 wherein the CRC engine further comprises a DES/CRC engine performing DES decryption or CRC processing of a received data

-2-

frame if the programmable media access controller determines to continue receipt of the data stream.

Claims 24-25 (Cancelled)

26. (Currently amended) A cable modem comprising:

a programmable media access controller;

a programmable pattern matching engine that is programmed by the media access controller, <u>wherein the programmable pattern matching engine performs one or more of address filtering, logical link control (LLC) filtering, protocol identifier (PID) filtering, and security ID (SID) filtering in a Multimedia Cable Network System (MCNS)</u>; [[and]]

a programmable CRC engine that is programmed by the media access controller; <u>and</u>

<u>a cable modem DMA controller coupled to the programmable media access controller, the programmable pattern matching engine, and the programmable CRC engine, the cable modem DMA controller facilitating movement of data between the programmable media access controller, the programmable pattern matching engine, and the programmable CRC engine.</u>

27. (Previously presented) The cable modem of claim 26 wherein the pattern matching engine matches address segments of data that is received at a first interface of the cable modem.

28. (Previously presented) The cable modem of claim 26 wherein the pattern matching engine determines whether to accept a frame at the cable modem quicker than if the cable modem were required to wait on processing at a central microprocessor.

29. (Previously presented) The cable modem of claim 27 wherein the pattern matching engine enables pattern matching of different length frame portions.

30. (Previously presented) The cable modem of claim 29 wherein the different length frame portions are selected from the group comprising bit length, byte length, word length, double word length, kilobyte length, and megabyte length.

31. (Currently amended) A method for receiving data comprising:

determining two or more acceptable parameters for data frames that are to be received, **wherein the acceptable parameters include one or more of address filtering, logical link control (LLC) filtering, protocol identifier (PID) filtering, and security ID (SID) filtering in a Multimedia Cable Network System (MCNS)**;

programming at least one of the acceptable parameters into a pattern matching engine;

programming at least one of the acceptable parameters into a DES/CRC engine;

receiving a data frame at [[the]] a communication device;

parsing the data frame to obtain a predetermined portion of the data frame;

comparing the predetermined portion of the data frame with at least one of the acceptable parameters stored in the pattern matching engine; [[and]]

processing the data frame with the DES/CRC engine if the predetermined portion of the data frame matches at least one of the acceptable parameters; **and**

facilitating movement of data between the programmable media access controller, the pattern matching engine, and the DES/CRC engine

32. (Previously presented) The method of claim 31 further comprising registering the result of the comparison in a suitable format for access by a microprocessor.

33. (Previously presented) The method of claim 32 further comprising reading the registered results with a microprocessor such that the microprocessor may determine whether to drop or accept the data frame that has been received at the communication device.

34. (Previously presented) The method of claim 32 wherein the predetermined portion of the data frame is an address portion of the data frame.

-4-

00CXT0330D

35. (Currently amended) The cable modem of claim 26 wherein patterns in the data comprise one or more of a MAC address, an IP address, and a protocol identifier [[(PIID)]] **PID** of an MPEG frame.

36. (Currently amended) The cable modem of claim 26 wherein [[a]] **an** operation of the cable modem ~~comprise~~ **comprises** one or more of logical link control (LLC) filtering, protocol identifier (PID) filtering, and security ED (SID) filtering in a Multimedia Cable Network System (MCNS).

37. (Currently amended) The cable modem system of claim 26 wherein the ~~DES/CRC~~ **programmable CRC** engine performs DES decryption or CRC processing of a received data frame after a microprocessor receives data from the pattern matching engine and determines to accept a received frame based on the data received from the pattern matching engine.

D1170358v2-13628.0267 DOC